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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/416,308	10/12/1999	PRADEEP K. KATHAIL	CISCO-1321	5986

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EXAMINER

PHAM, HUNG Q

ART UNIT

PAPER NUMBER

2172

DATE MAILED: 10/24/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/416,308

Applicant(s)

KATHAIL ET AL.

Examiner

HUNG Q PHAM

Art Unit

2172

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on 29 August 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 19-34 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 19-34 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

1. Applicants canceled claims 1-18 and substituted by claims 19-34 in the Request for Continued Examination and amendment received on 08/29/2002. The pending claims are 19-34.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. **Claims 19, 25, 27 and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Carcerano et al. [USP 6,308,205 B1].**

Regarding to claims 19 and 27, Carcerano teaches a method and product for updating a configuration of at least one of a plurality of network devices connected to a network, and the configuration data is stored in a database (Abstract). As shown in FIG. 1, Server 45 is a programmable general-purpose computer. FIG. 4 is a block diagram showing the internal architecture of server 45 on which runs the browser-based network

management system of the invention. As shown in FIG. 4, server 45 includes central processing unit 91, which loads process steps from a computer-readable medium such as fixed disk 93 or some other source such as a network disk into main memory 95, then executes the stored process steps from main memory 95 in order to execute application programs such as an HTTP server and a network management server (Col. 7, line 56-Col. 8, line 52) as *instructions for directing a processing unit and a media readable by said processing unit that stores said instruction*. As shown in FIG. 5, network management server 104 maintains database 105, which stored configuration data based on the status and configuration of network devices on network 1 by repeatedly polling the devices on network 1 through network interface 47 using network management protocol 102 (Col. 9, lines 15-22 and Col. 10, lines 48-55) as the step of *maintaining a configuration database*. Carcerano further discloses the browser 83 as in FIG. 3 uses HTTP to communicate with HTTP server 103 running on server 45. Browser 83 sends URL-encoded requests to and receives HTML coded responses from the HTTP server. The URL-encoded requests identify a network device on network 1 so as to request status and configuration information for that network device. The URL-encoded requests also contain updates to status and configuration information for updating the status and configuration of a targeted network device (Col. 10, lines 35-47). CGI scripts 106 are responsible for making changes to database 105. HTTP server 103 calls CGI scripts 106 in response to URL-encoded requests from browser 83 on workstation 70, for entering an update to status and configuration information of a network device. Thus, if a URL-encoded request includes changes to the status or

configuration of a device on network 1, the CGI script called by HTTP server 103 in response to that request enters those changes into database 105 (Col. 9, lines 34-42). As shown in FIGS. 6-7, identification of objects in the network and its properties is stored in a record for browsing and updating. Thus, the technique as taught by Carcerano for updating configuration data as discussed above indicates the step of *receiving a notification request from one of plurality of subsystems, wherein said notification request is a request to receive notification of changes to configuration data of an object in said network, and storing an identification of said one of said plurality of subsystems in a record for said configuration data for said object identifying said one of said plurality of subsystems as requiring notification of changes to said configuration data of said object*. Carcerano does not explicitly teach that Server 45 is *a router device*. However, Carcerano discloses that Server 45 for managing network devices can be any other type of data processing equipment that can access network 1 and that can run the browser-based network management system according to the invention (Col. 5, lines 59-67). Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to modify the Carcerano product by implementing the technique of notifying configuration data in a router device and by the modification, configuration data could be viewed and updated via a user's request.

Regarding to claims 25 and 33, Carcerano teaches all the claimed subject matters as discussed in claims 19 and 27, Carcerano further discloses the step of *receiving a remove notification request from said one of said plurality of subsystems, wherein said remove*

notification request is a request to remove said one of said plurality of subsystems from said plurality of subsystems to be notified in response to a change in said configuration data, and removing said identification of said one of said plurality of subsystems from said record of said configuration data storing subsystems to be notified of a change in said configuration data (FIG. 5, Col. 8-12).

4. Claims 20 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Carcerano et al. [USP 6,308,205 B1] in view of Civanlar et al. [USP 6,078,963].

Regarding to claims 20 and 28, Carcerano teaches all the claimed subject matters as discussed in claims 19 and 27, Carcerano further discloses: *receive a change in said configuration data of said object* (Carcerano, Col. 10, lines 35-47 and Col. 9, lines 34-42), but fails to teach the step of *reading said identification of said one of said plurality of subsystems from said record of said object receiving to receiving said change of said configuration data, and transmit a notification of said change of configuration data of said object to said one of said plurality of subsystems responsive to said reading of said identification*. Civanlar teaches an improved network router having a plurality of intelligent router ports and each intelligent router port may have its own routing and/or forwarding engines (Civanlar, Abstract). Civanlar further discloses the step of *reading said identification of said one of said plurality of subsystems from said record of said object receiving to receiving said change of said configuration data, and transmit a notification of*

said change of configuration data of said object to said one of said plurality of subsystems responsive to said reading of said identification (Civanlar, Col. 3, line 53-Col. 4, line 7 and Col. 7, lines 43-65). Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to modify the Carcerano product and method by including the step of reading identification and transmitting notification of change of configuration data to subsystem in order to distribute configuration data over a network.

5. Claims 21-24, 26, 29-32 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Carcerano et al. [USP 6,308,205 B1] in view of Tabuchi [USP 6,446,093].

Regarding to claims 21 and 29, Carcerano teaches all the claimed subject matters as discussed in claims 21 and 27, Carcerano further discloses the step of *retrieving a record storing said configuration data for said object responsive to receiving said notification request* (Carcerano, FIGS. 6-7, Col. 11-13), but fails to teach the step of *setting a notification flag in said record*. Tabuchi teaches a distributed system comprising a document server and a plurality of clients, which are connected to the document server via a network and a method of managing a document shared in the distributed system (Tabuchi, Col. 1, lines 5-10). Tabuchi further discloses the step of setting a notification flag in a record (Tabuchi, Col. 6, lines 15-54). Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to modify the Carcerano product and method by including the technique of setting a notification flag

as taught by Tabuchi, and by doing this, a record could be controlled and managed via access right.

Regarding to claims 22 and 30, Carcerano and Tabuchi teaches all the claimed subject matters as discussed in claims 21 and 29, Carcerano further discloses the step of *receiving a change to said configuration data of said object retrieving said record of said object* (Carcerano, Col. 10, lines 35-47 and Col. 9, lines 34-42), but fails to teach the step of *reading said notification flag*. Tabuchi teaches a distributed system comprising a document server and a plurality of clients, which are connected to the document server via a network and a method of managing a document shared in the distributed system (Tabuchi, Col. 1, lines 5-10). Tabuchi further discloses the step of reading notification flag (Tabuchi, Col. 26, lines 27-28). Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to modify the Carcerano product by including the step of reading notification flag, and by including the step of reading, a record could be controlled and managed for modifying via access right.

Regarding to claims 23 and 31, Carcerano and Tabuchi teaches all the claimed subject matters as discussed in claims 21 and 29, Carcerano further discloses the step of *determining said notification request is configuration data of a name space, retrieving each child record of said record* (Carcerano, FIGS. 6-7, Col. 11-13), but fails to teach the step of *setting a notification flag in each said child record*. Tabuchi teaches a distributed system comprising a document server and a plurality of clients, which are connected to the

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document server via a network and a method of managing a document shared in the distributed system (Tabuchi, Col. 1, lines 5-10). Tabuchi further discloses the step of setting a notification flag in a record (Tabuchi, Col. 6, lines 15-54). Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to modify the Carcerano product and method by including the technique of setting a notification flag in a child record as taught by Tabuchi, and by doing this, a child record could be controlled and managed via access right.

Regarding to claims 24 and 32, Carcerano and Tabuchi teaches all the claimed subject matters as discussed in claims 23 and 31, Carcerano further discloses the step of *receiving a change to configuration in a child record, retrieving said child record responsive to receiving said change, and transmitting notification of said change of said change to said one of said plurality of subsystems identified in said parent record* (Carcerano, FIGS. 6-7, Col. 11-13), but fails to teach the step of *reading said notification flag in said child record responsive to retrieving said record, reading a parent record of said child responsive to reading said notification flag*. Tabuchi teaches a distributed system comprising a document server and a plurality of clients, which are connected to the document server via a network and a method of managing a document shared in the distributed system (Tabuchi, Col. 1, lines 5-10). Tabuchi further discloses the step of reading notification flag (Tabuchi, Col. 26, lines 27-28). Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to modify the Carcerano product by including the step of reading notification flag in child also

parent record, and by including the step of reading, a record could be controlled and managed for modifying via access right.

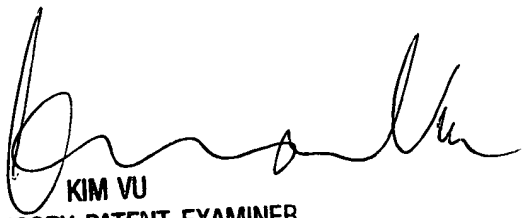
Regarding to claims 26 and 34, Carcerano teaches all the claimed subject matters as discussed in claims 25 and 33, Carcerano fails to disclose the step of *determining whether said configuration data for which said remove notification request is for a name space, retrieving each child record of said record of said configuration data responsive to a determination said configuration data is a name space, and removing a notification flag, from each said child record*. Tabuchi teaches a distributed system comprising a document server and a plurality of clients, which are connected to the document server via a network and a method of managing a document shared in the distributed system (Tabuchi, Col. 1, lines 5-10). Tabuchi further discloses the step of *determining whether said configuration data for which said remove notification request is for a name space, retrieving each child record of said record of said configuration data responsive to a determination said configuration data is a name space, and removing a notification flag, from each said child record* (Tabuchi, Col. 6, line 15-Col. 9, line 28). Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to modify the Carcerano method by including the step of removing notification flag from the child record after retrieving the child record, and by including the step of removing and retrieving, a record could be controlled and managed for modifying via access right.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung Pham whose telephone number is 703-605 4242. The examiner can normally be reached on Monday-Friday, 7:00 Am - 3:30 Pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, VU, KIM YEN can be reached on 703-305 4393. The fax phone numbers for the organization where this application or proceeding is assigned are 703-746 7239 for regular communications and 703-746 7238 for After Final communications. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305 3900.

Examiner: Hung Pham
October 3, 2002



KIM VU
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